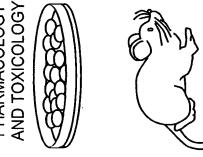


MOLECULAR PHARMACOLOGY



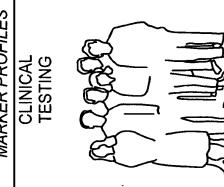


☐ 25 TO 100 GENES ☐ MULTIPLE CELLS / ORGANS



BETTER PRODUCT CANDIDATES

CLINICAL SURROGATE
MARKER PROFILES



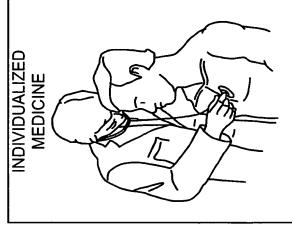
☐5 TO 15 GENES ☐SMALL BLOOD SAMPLES



ACCURATE CLINICAL DEVELOPMENT

FIG. 1

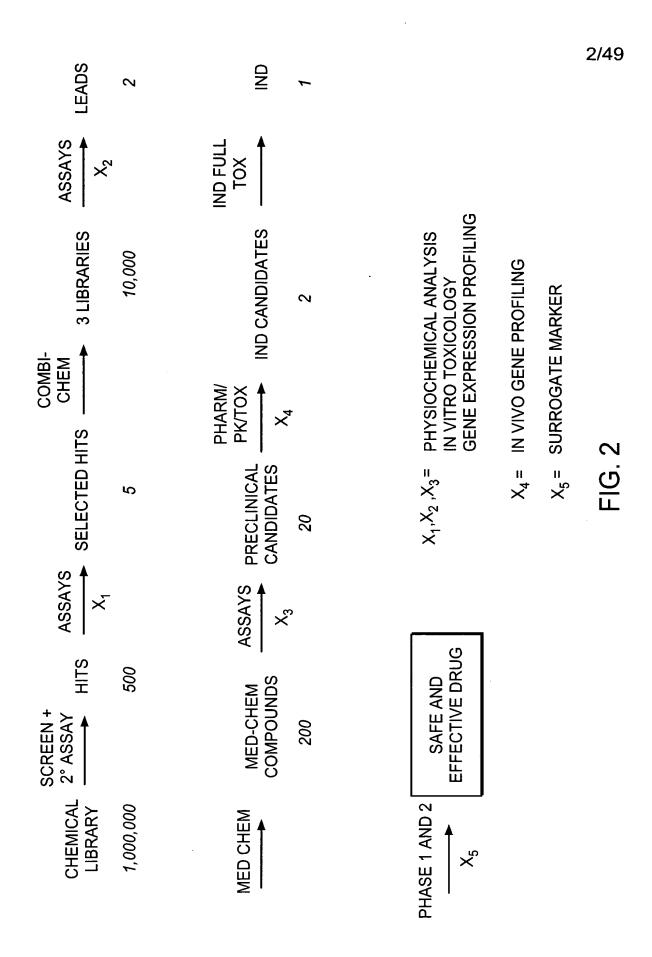
HEALTH PROFILES

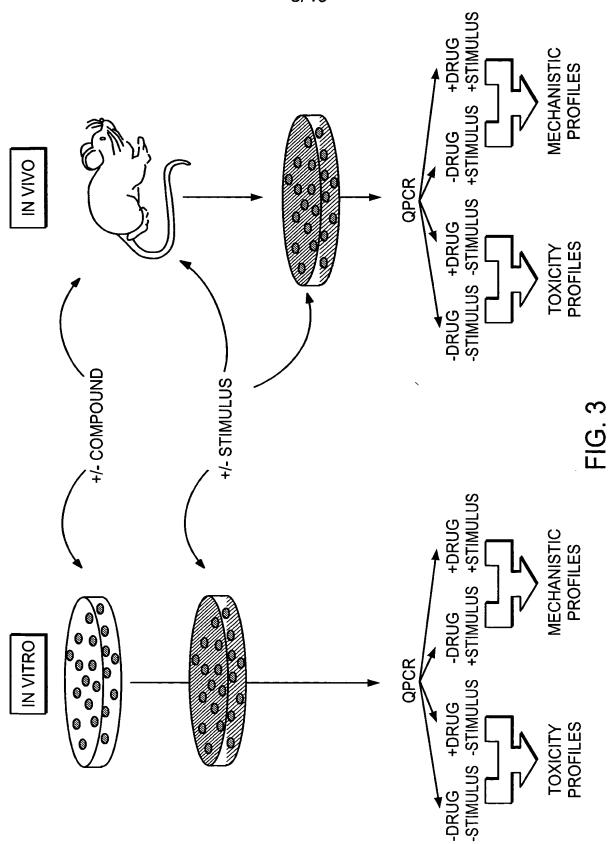


☐100 TO 500 GENES ☐SMALL BLOOD SAMPES

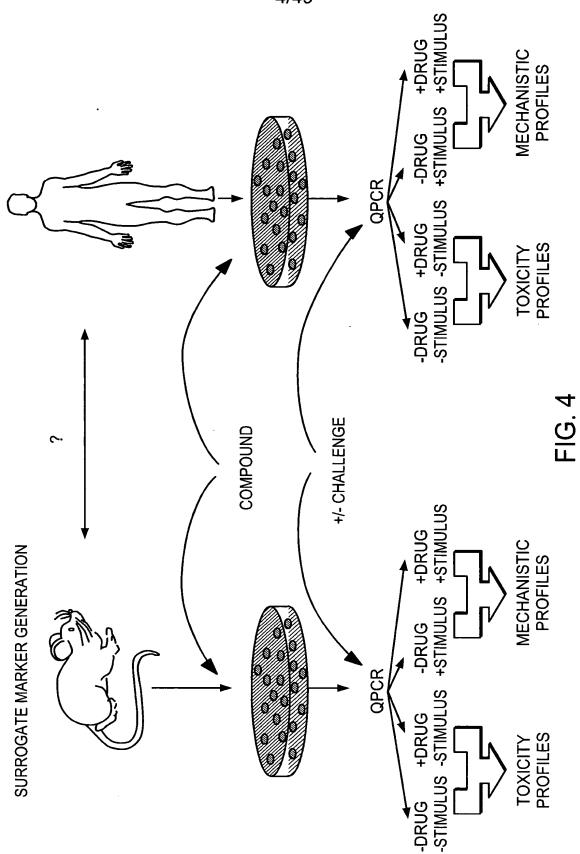


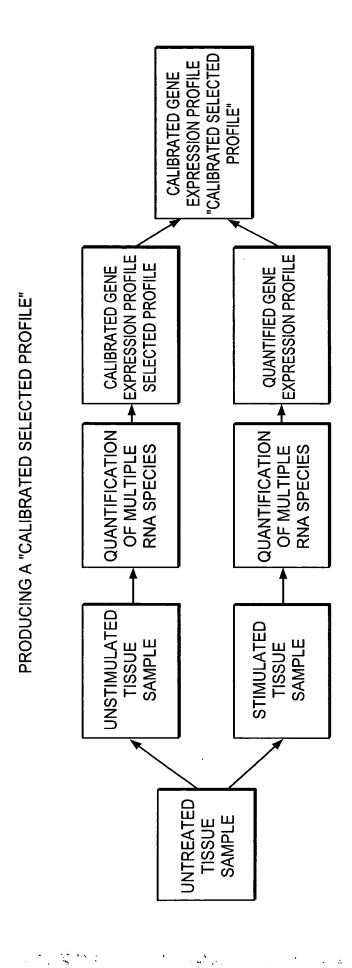
**BETTER HEALTH CARE** MANAGEMENT





Burney

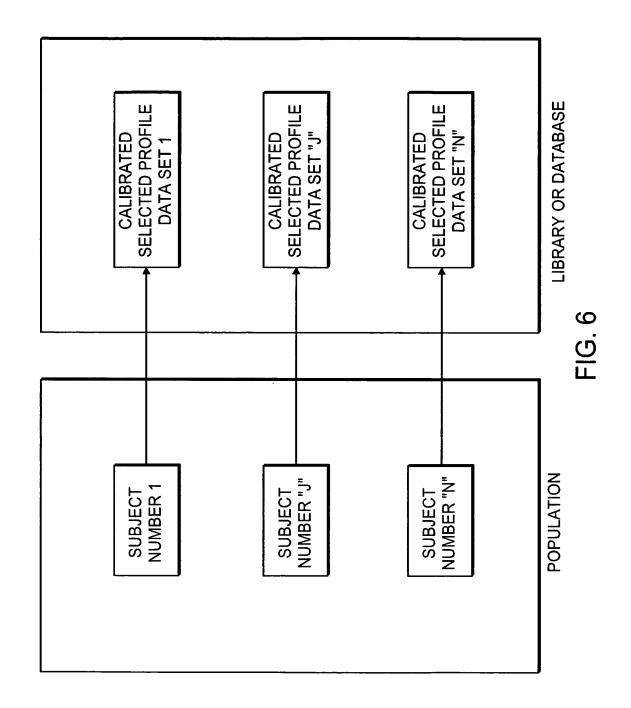


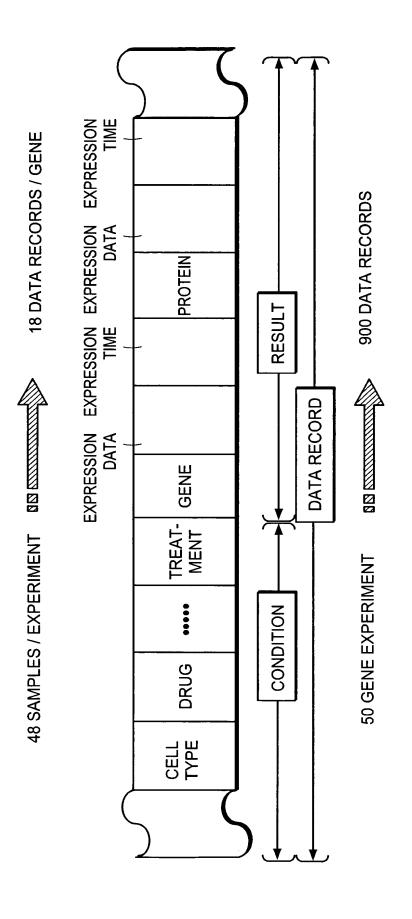


40.5

FIG. 5

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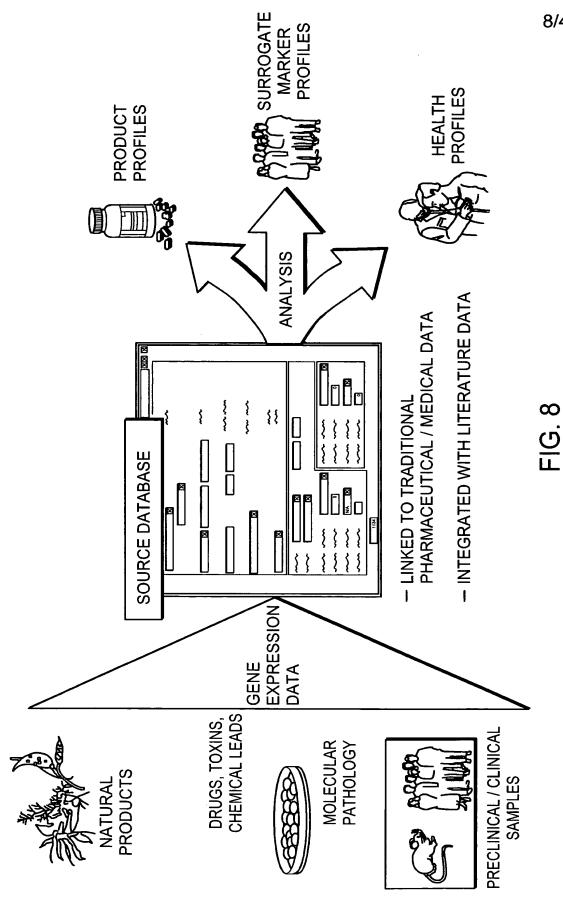


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EACH NEW RECORD IMPROVES THE PREDICTIVE POWER OF THE DATABASE AND INCREASES ITS VALUE

∹.

FIG. 7



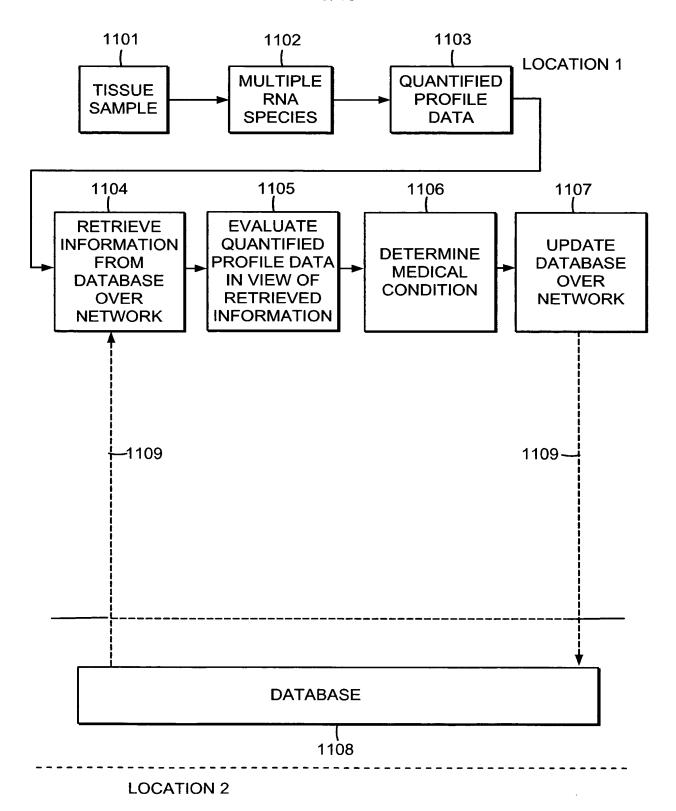
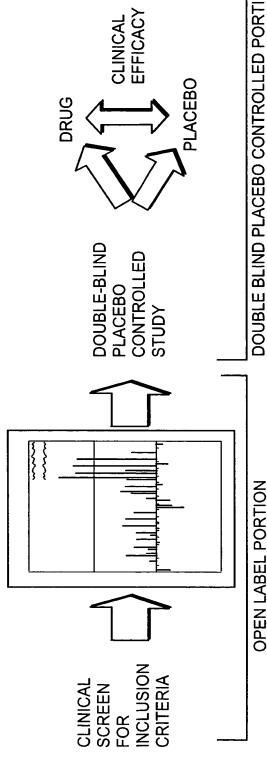


FIG. 9

## PHASE TWO CLINICAL TRIAL DESIGN USING SELECTED PROFILING



- -THE TARGET CLINICAL POPULATION CAN BE EVALUATED FOR RESPONSIVENESS TO THERAPY BY FOCUSING ON DRUG RESPONSE GENE PROFILING
- NON-RESPONDERS FROM THE SECOND PORTION OF THE -"SIGNAL TO NOISE" CAN BE ENHANCED BY REMOVING

. i.

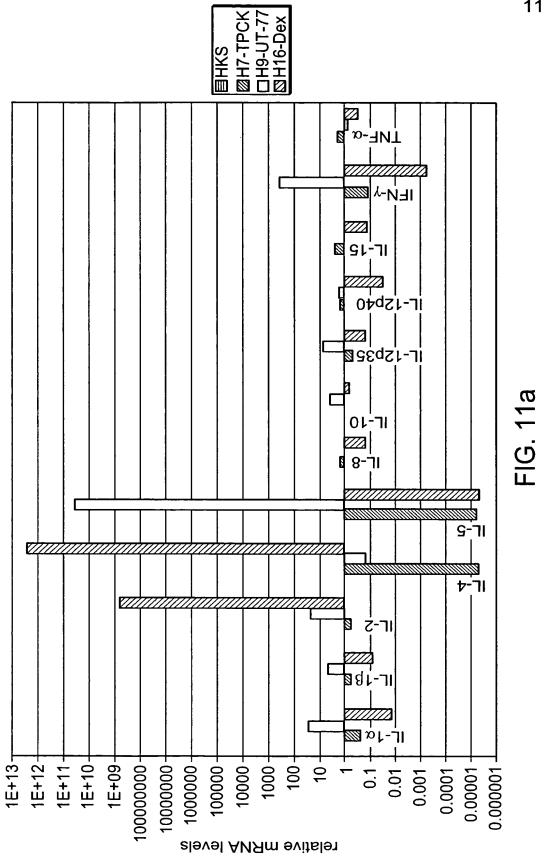
-DOSE CAN BE OPTIMIZED ON AN INDIVIDUAL BASIS TO MAXIMIZE THE IMPACT ON THERAPEUTIC OUTCOME

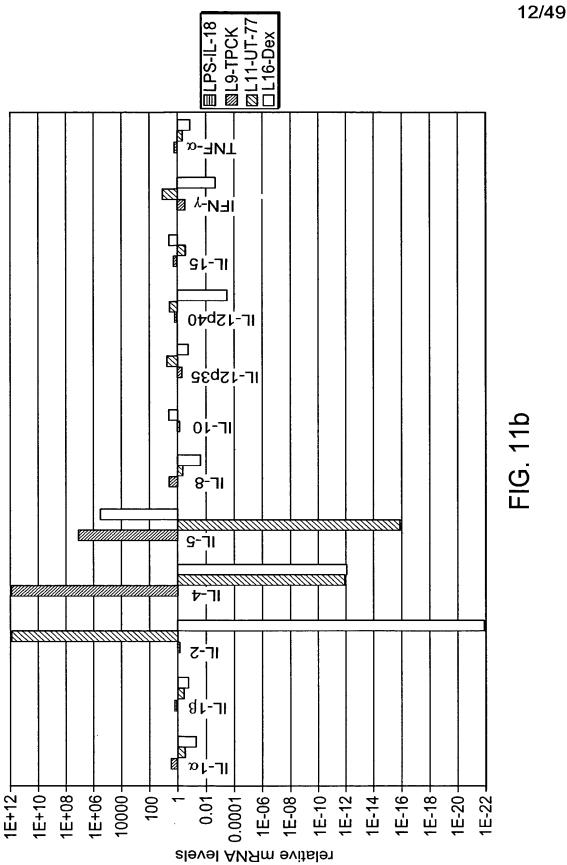
DOUBLE BLIND PLACEBO CONTROLLED PORTION

- CLINICAL RESPONSE/NON-RESPONSE CAN BE CORRELATED WITH DISEASE RESPONSE GENE PROFILING
  - CLINICAL EFFICACY CAN BE MEASURED WITH GREATER **PRECISION**
- FUTURE STUDIES CAN BE PLANNED WITH GREATER CERTAINTY AND STATISTICAL POWER
- IMPORTANT INFORMATION REGARDING COMPETITIVE POSITIONING COMPARISION WITH CLINICAL DATABASES CAN PROVIDE RELATIVE TO EXISTING THERAPIES

FIG. 10b

FIG. 10a





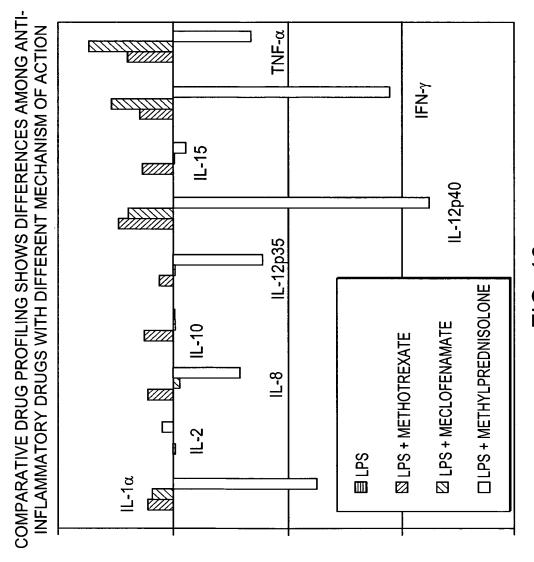


FIG. 12a

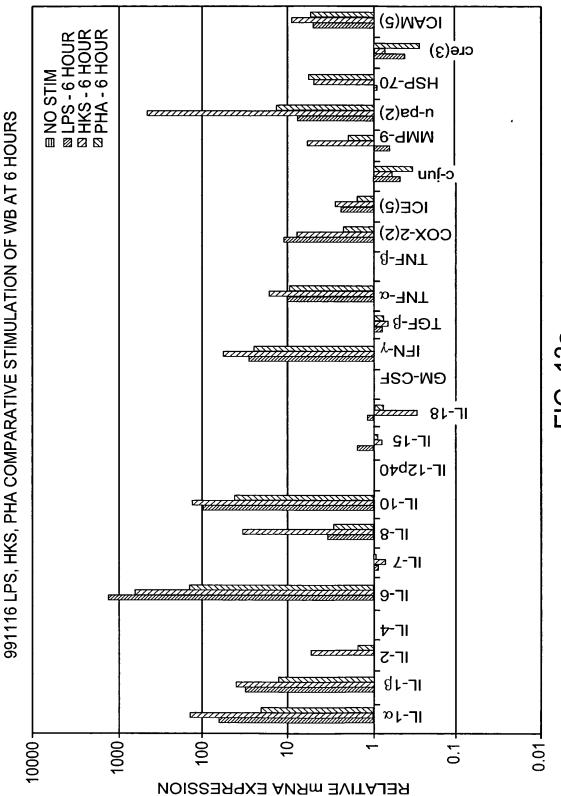
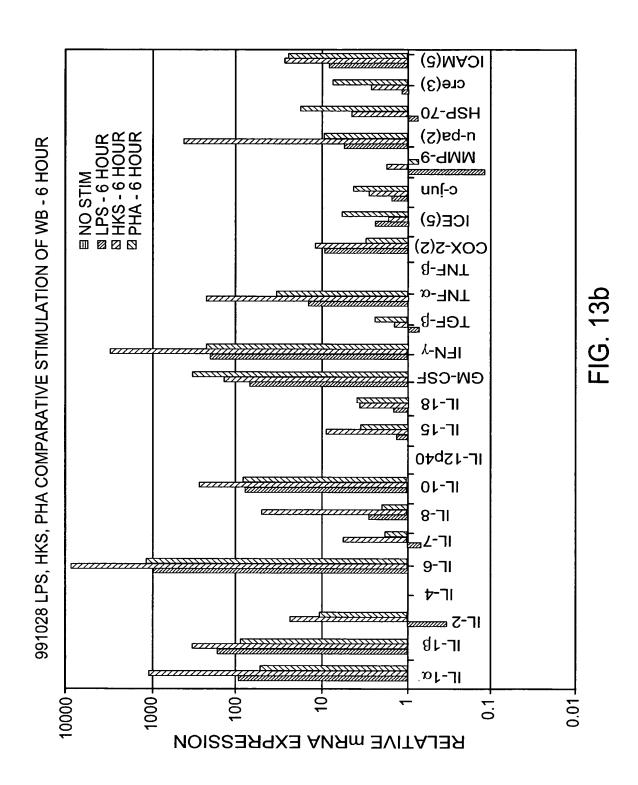
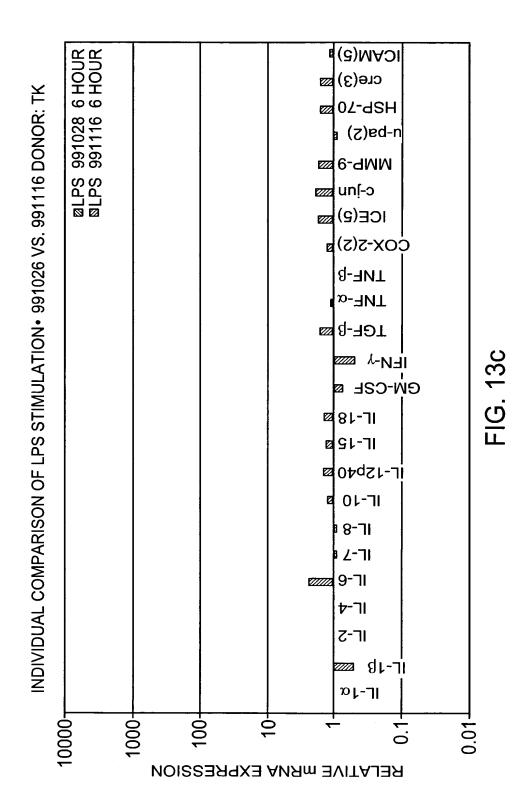
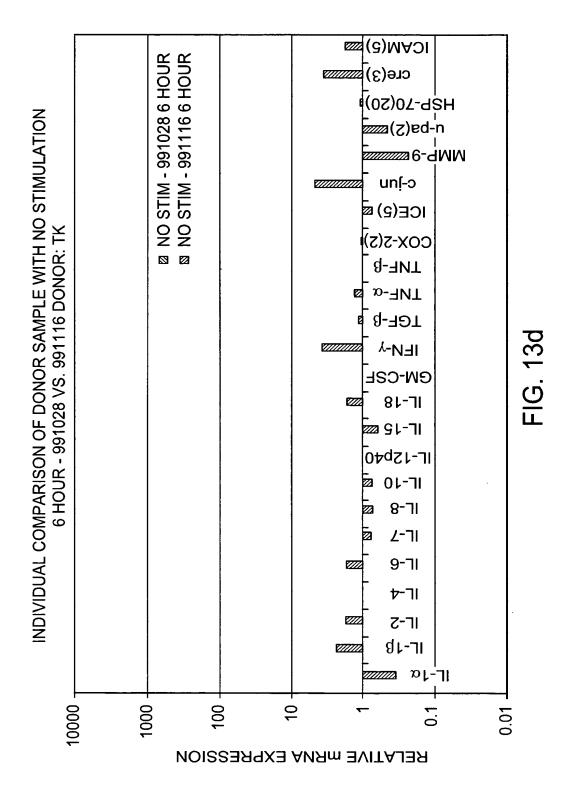
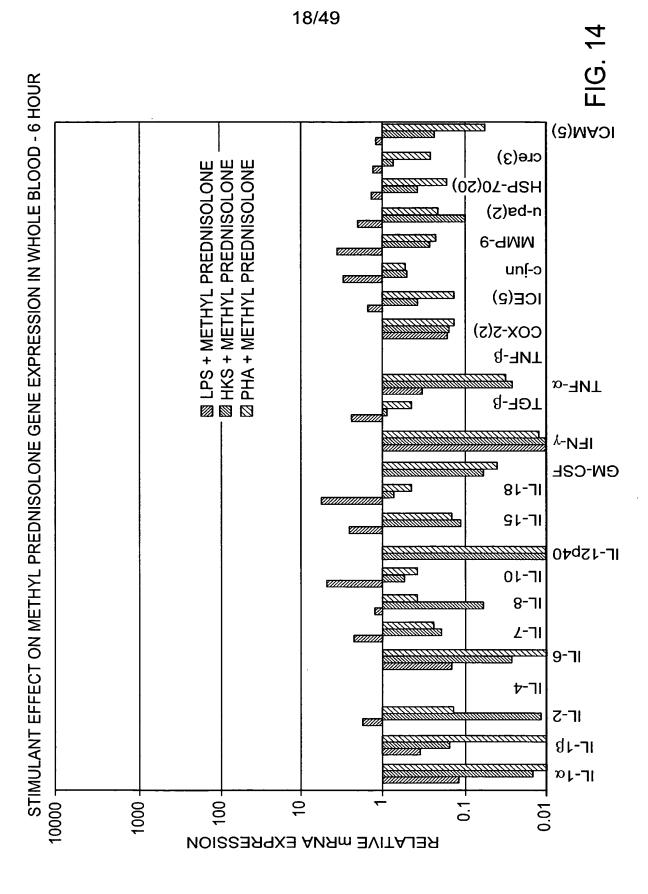


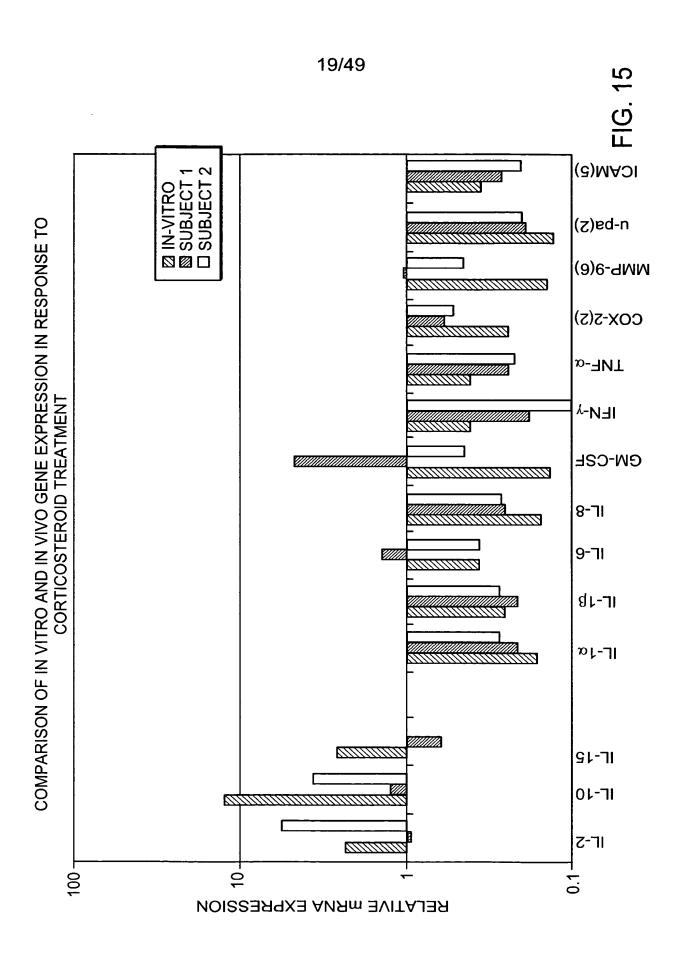
FIG. 13a

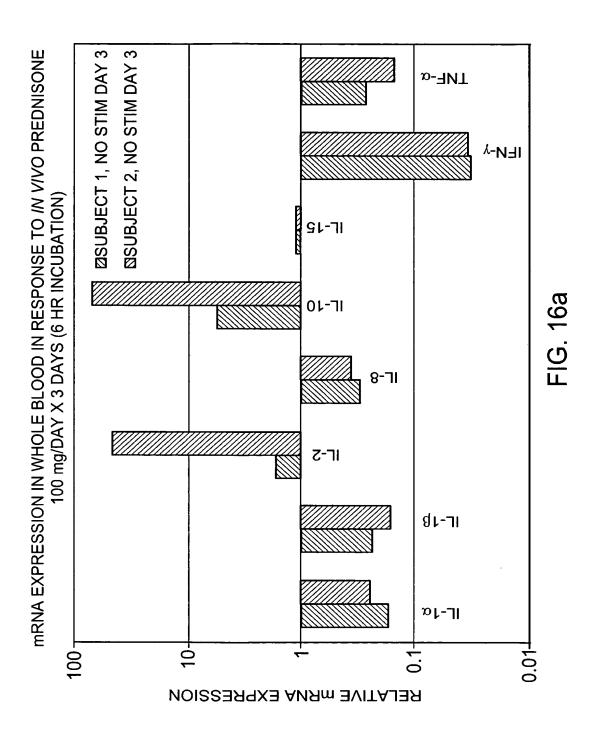


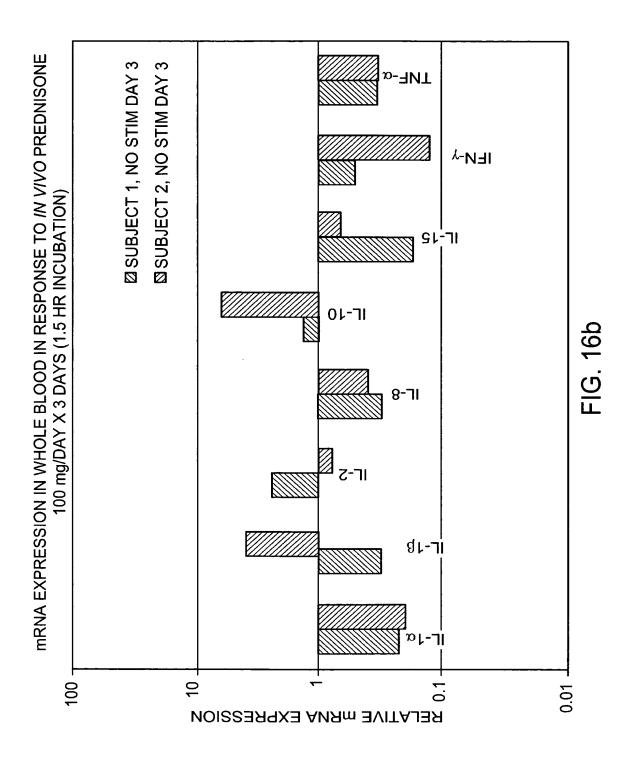


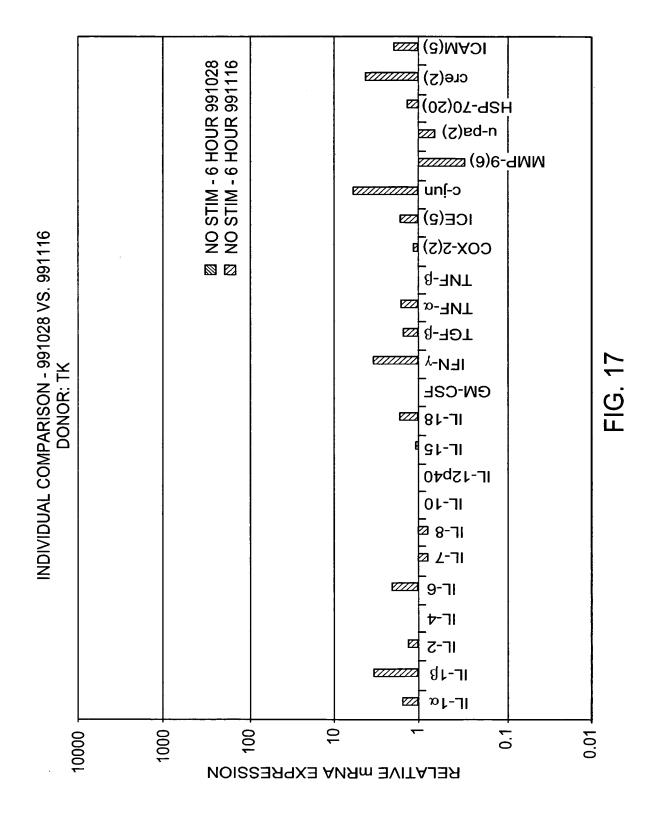


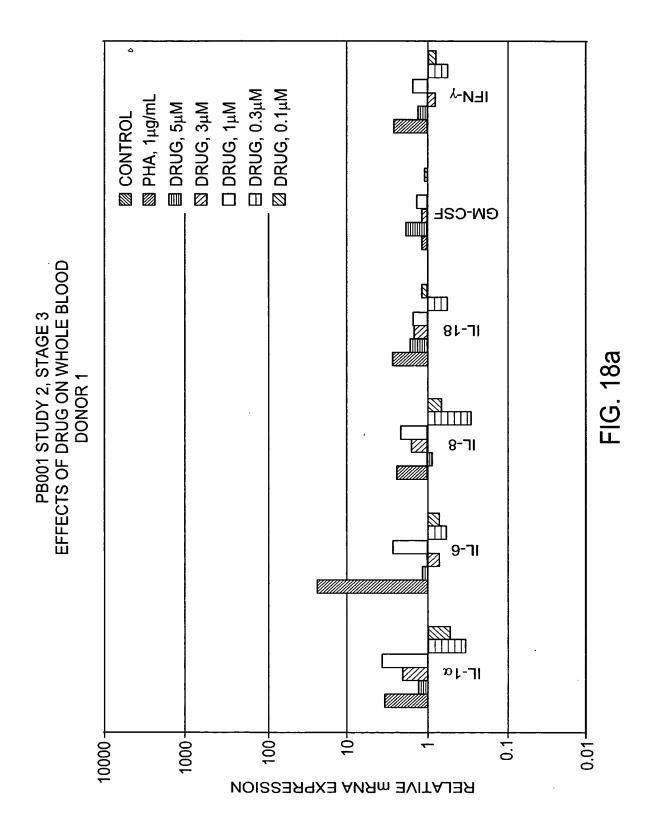


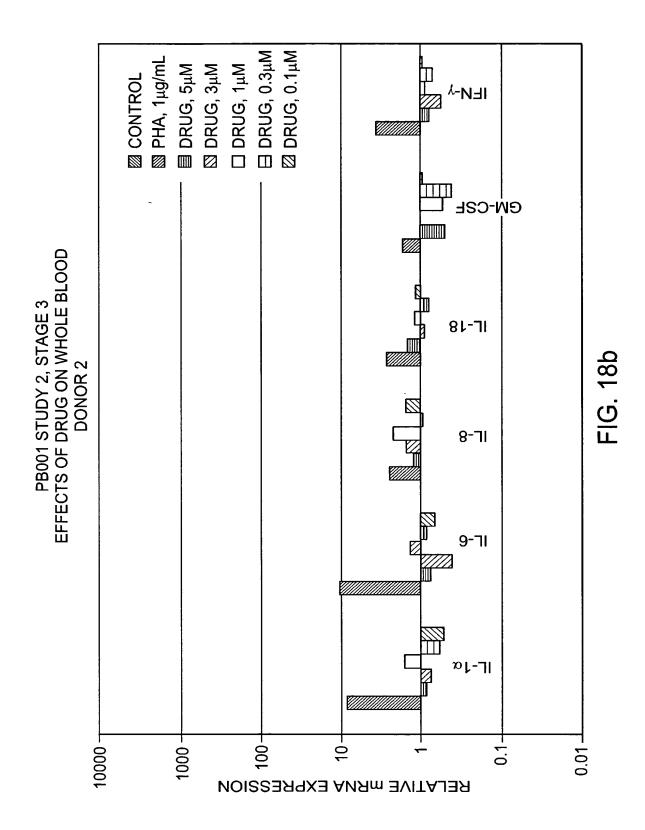


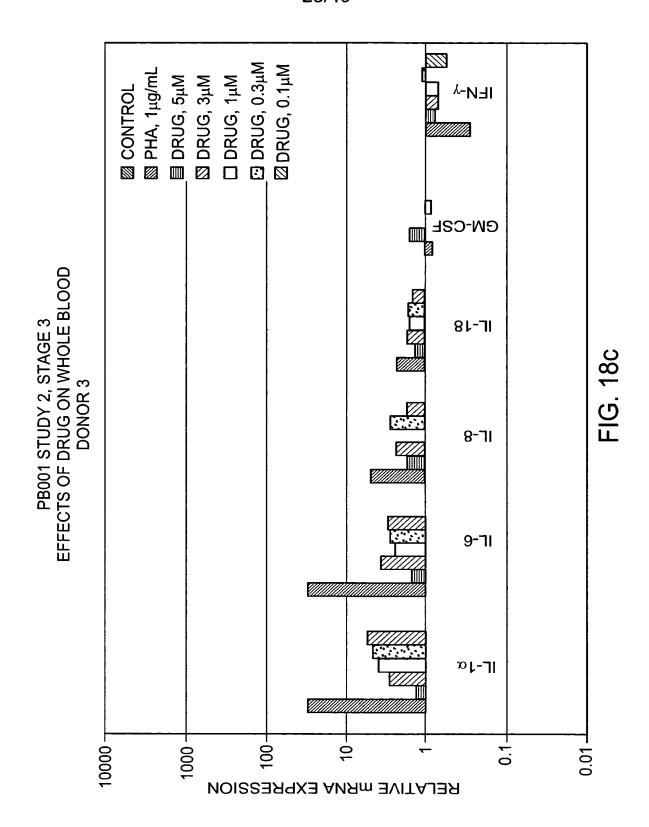


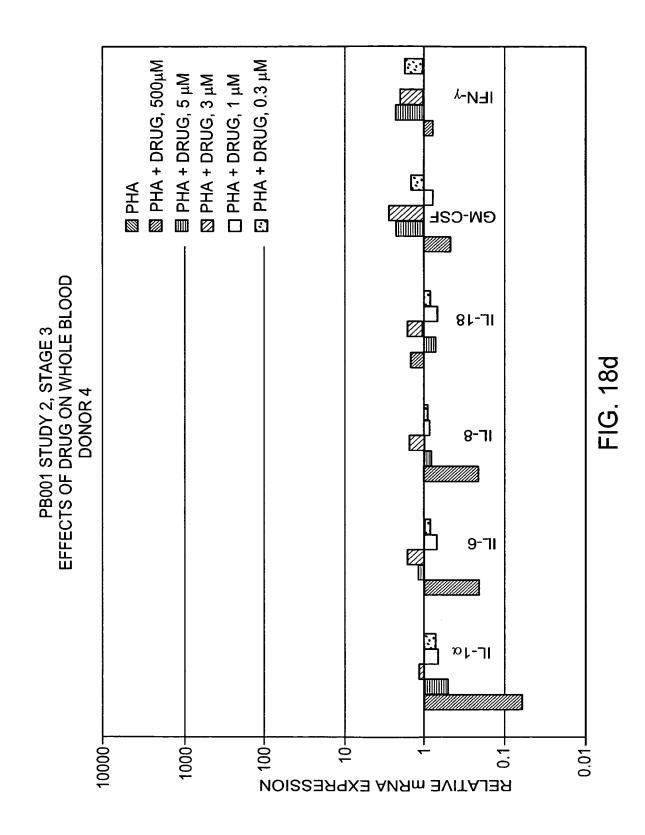


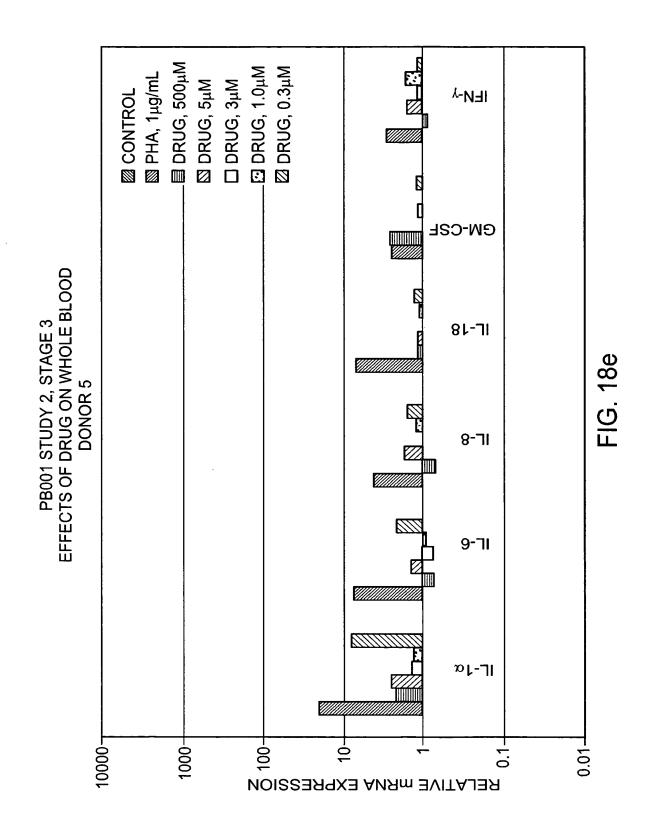


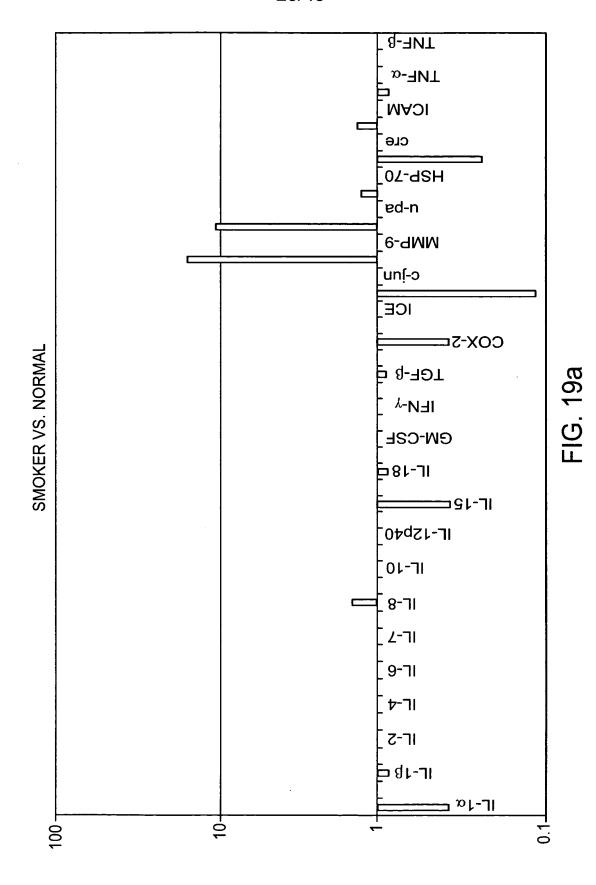












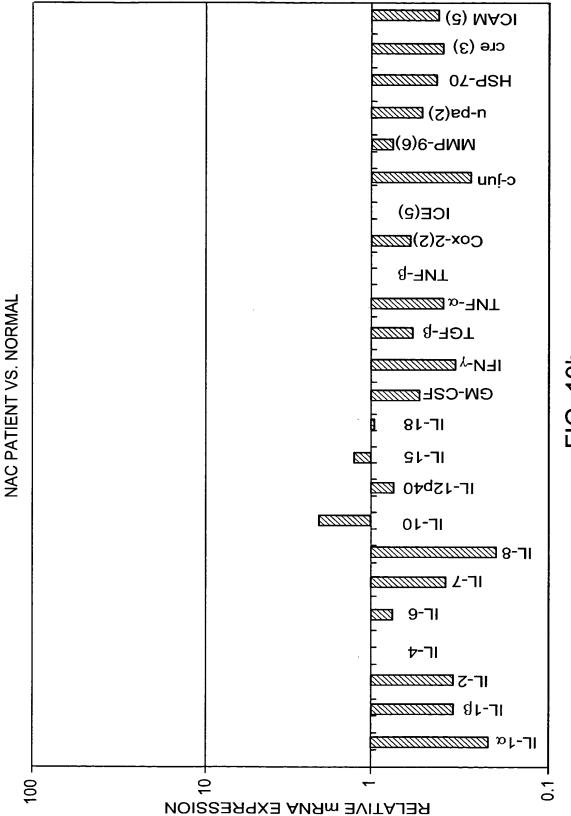
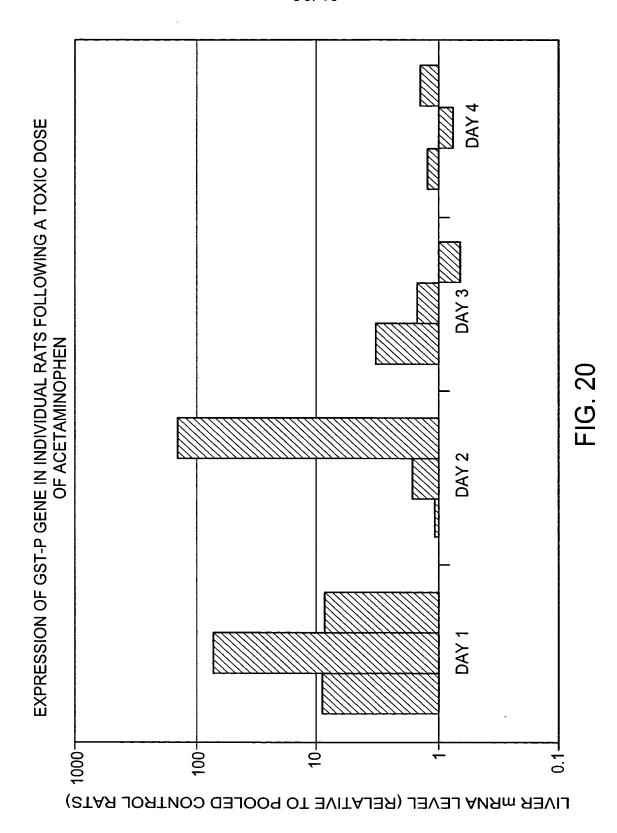
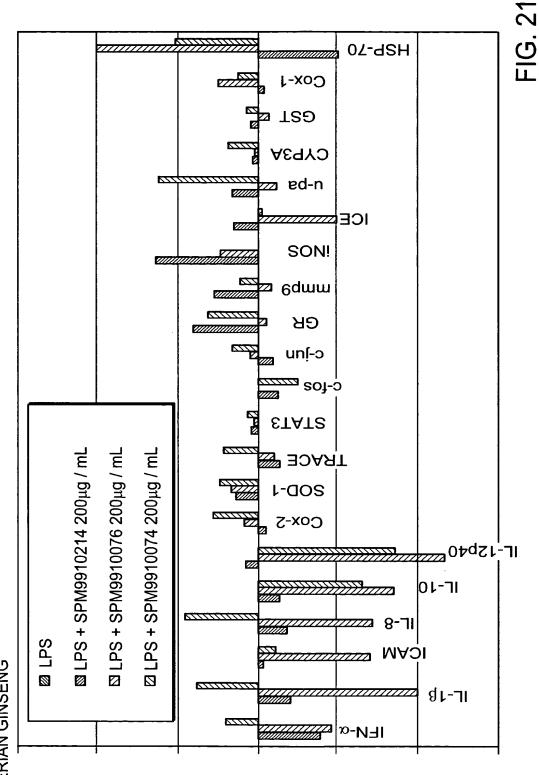


FIG. 19b

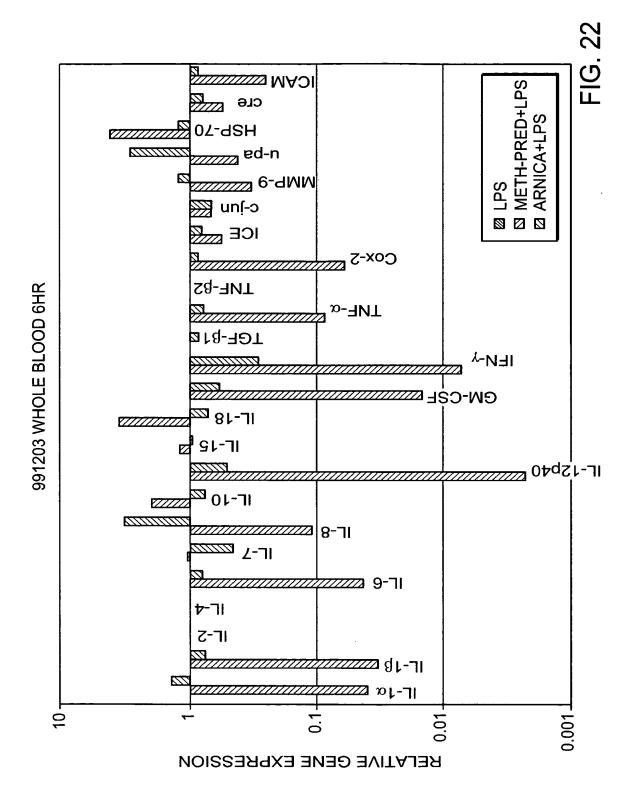


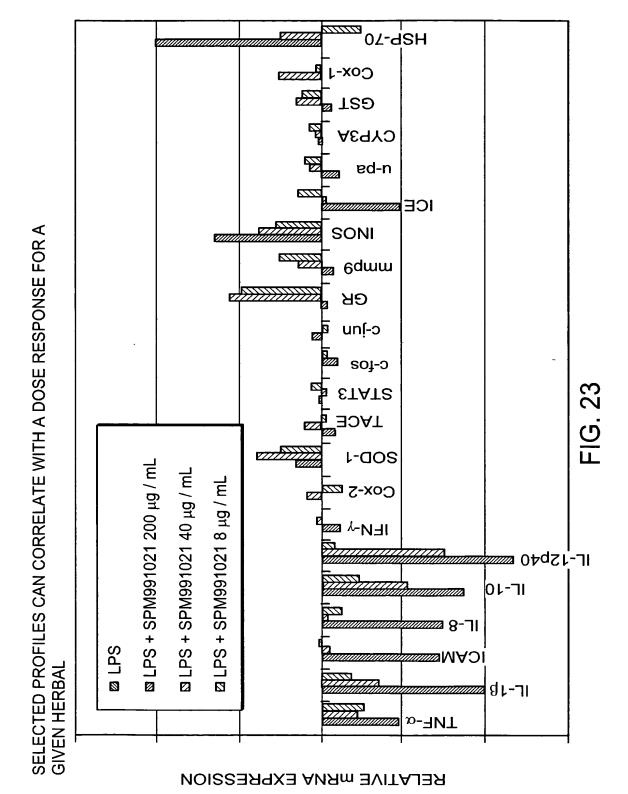
COMPARATIVE HERBAL PROFILING SHOWS DIFFERENCES AMONG ANTI-INFLAMMATORY HERBS SUCH AS ECHINACEA, ARNICA AND SIBERIAN GINSENG



RELATIVE mRNA EXPRESSION

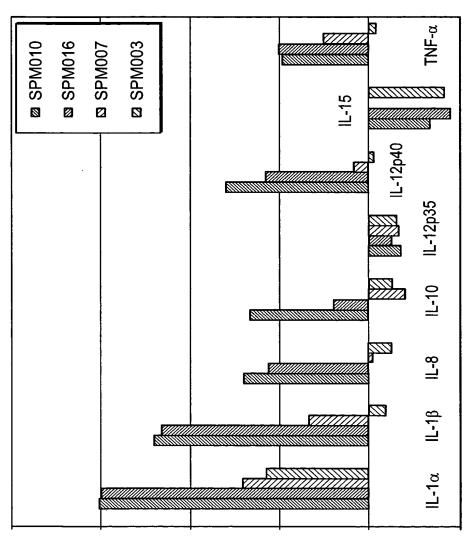
31/49





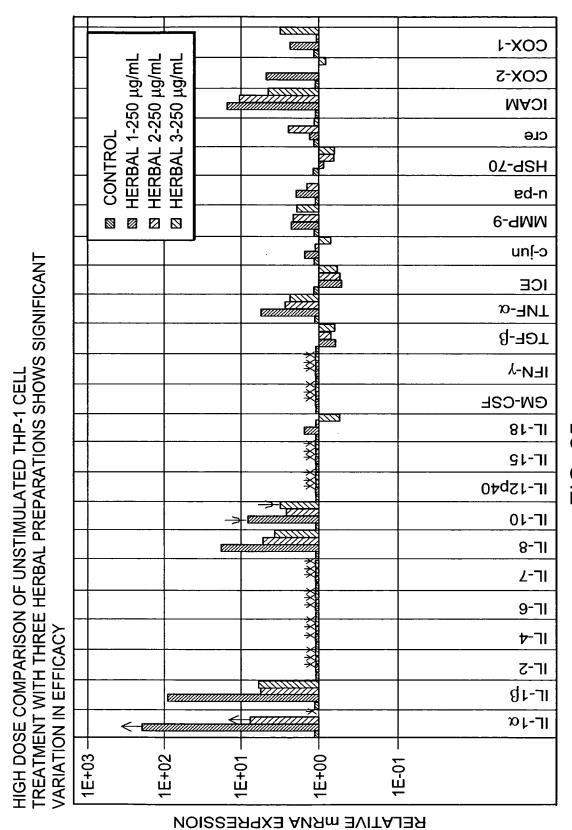
33/49

SELECTED PROFILES REVEAL CONTAMINATION WITH ENDOTOXIN AMONG DIFFERENT COMMERCIAL BRANDS AS REVEALED IN SPM010 AND SPM016

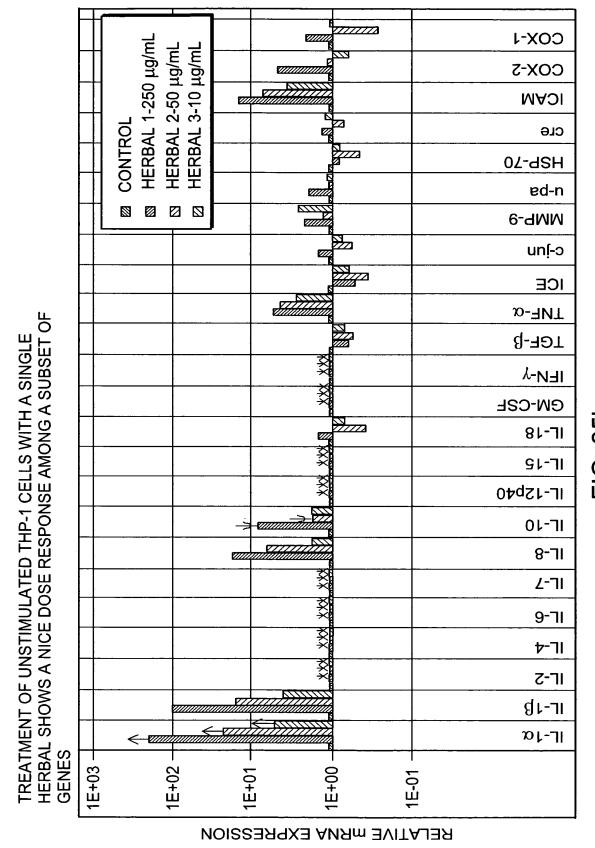


RELATIVE mRNA EXPRESSION

FIG. 24



35/49



36/49

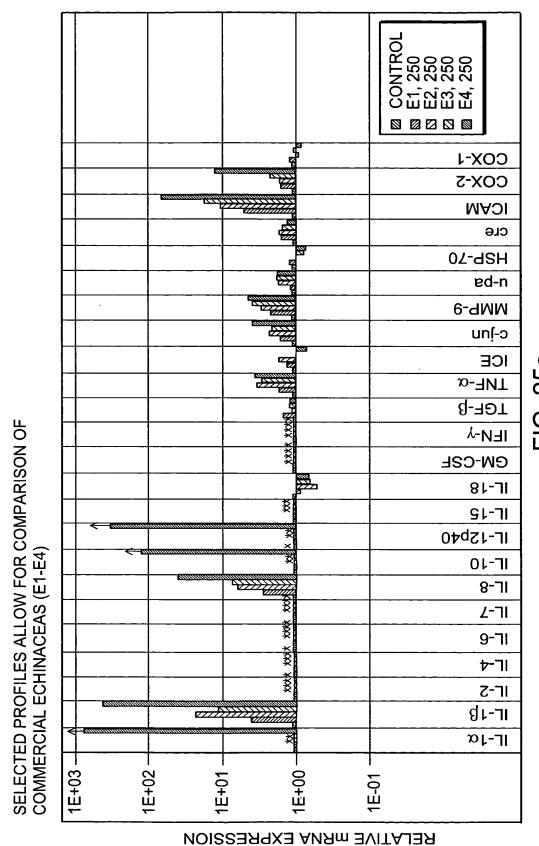
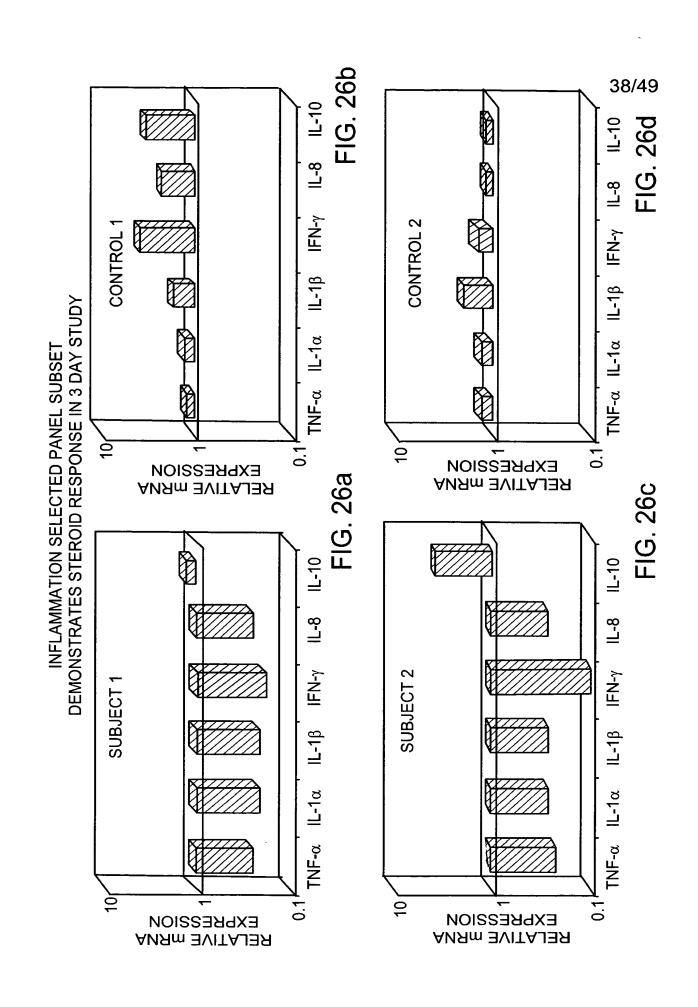
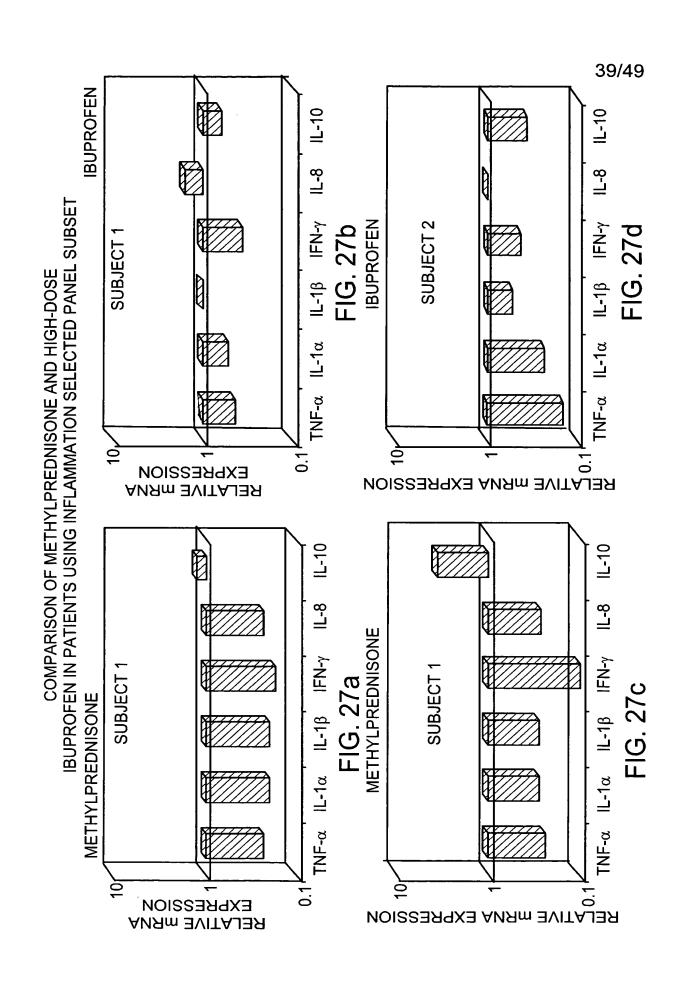
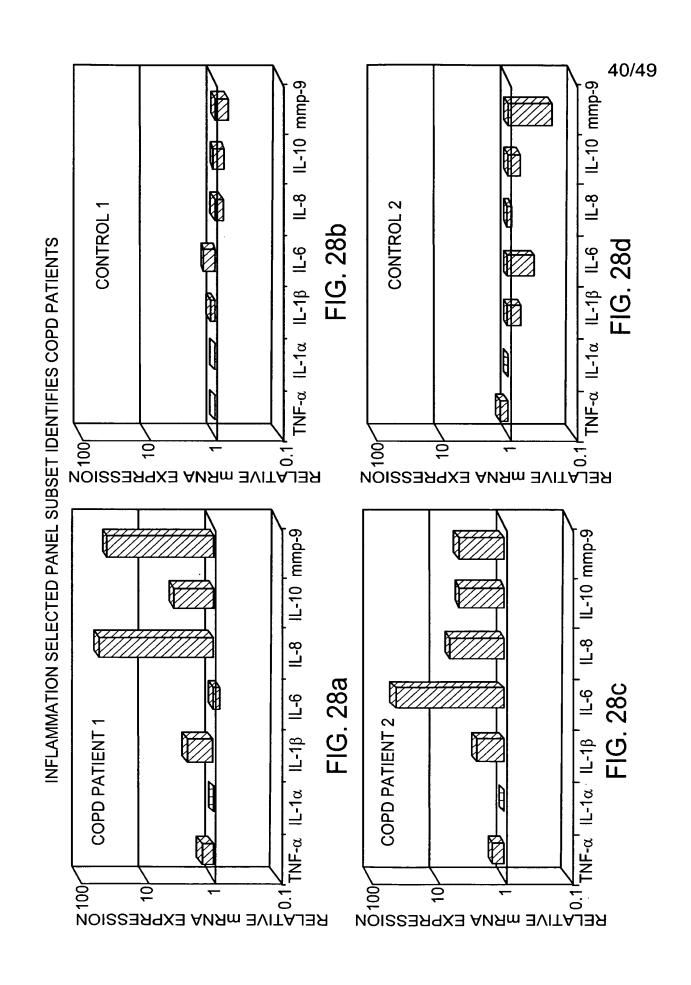
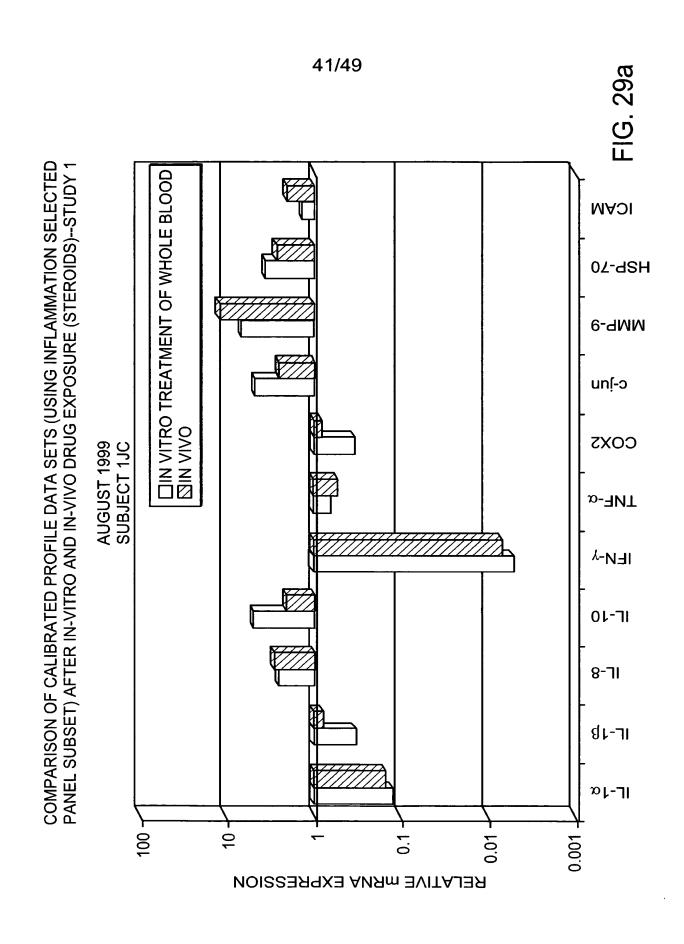


FIG. 25c

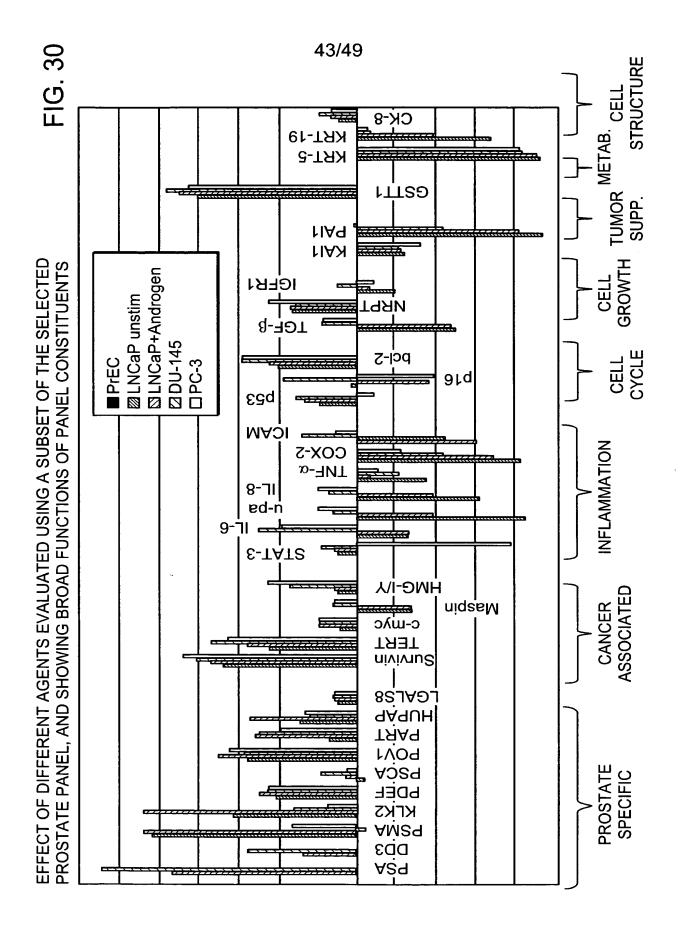


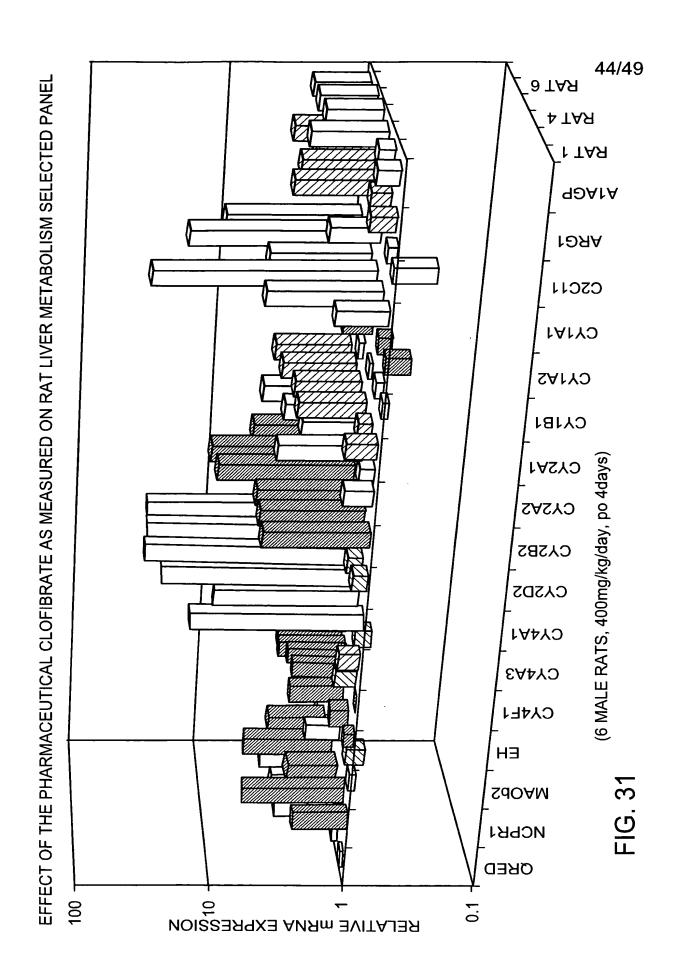


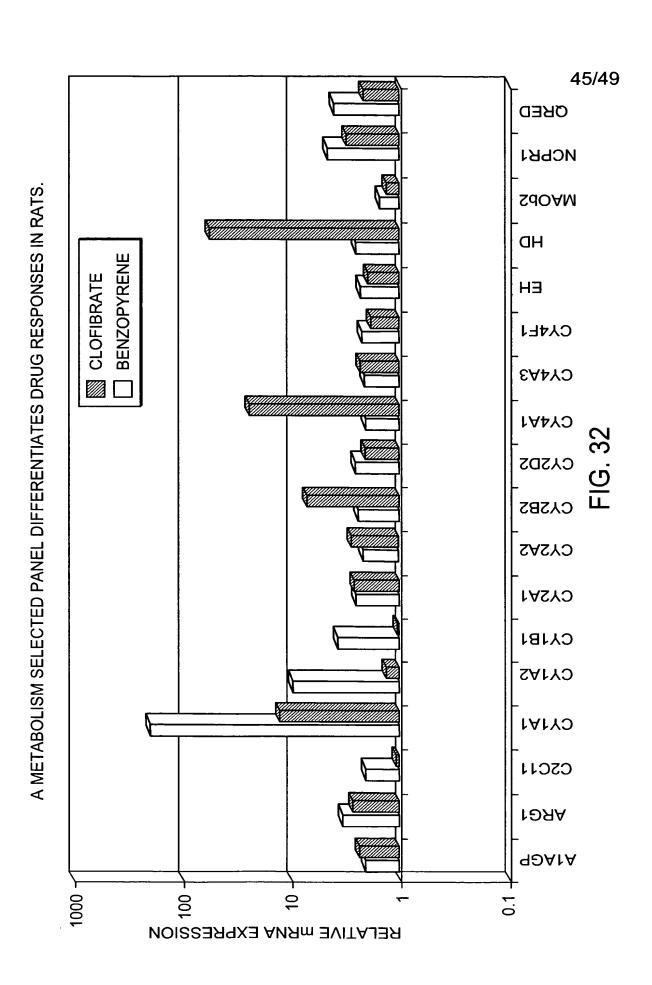


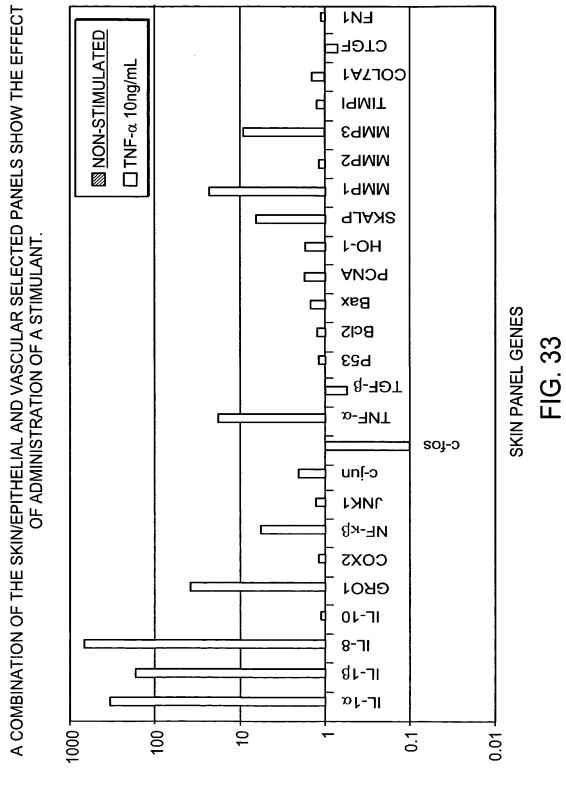


42/49 FIG. 29b □IN VITRO TREATMENT OF WHOLE BLOOD □IN VIVO COMPARISON OF CALIBRATED PROFILE DATA SETS (USING INFLAMMATION SELECTED PANEL SUBSET) AFTER IN-VITRO AND IN-VIVO DRUG EXPOSURE (STEROIDS)--STUDY 2 MADI 07-92H 6-9MM un[-o COXS AUGUST 2000 **SUBJECT 1JC** TNF-a IEN-Y ור-10 8-71 ור-זף ור-גומ 0.001 10.000-1.000 0.010 0.100 RELATIVE mRNA EXPRESSION



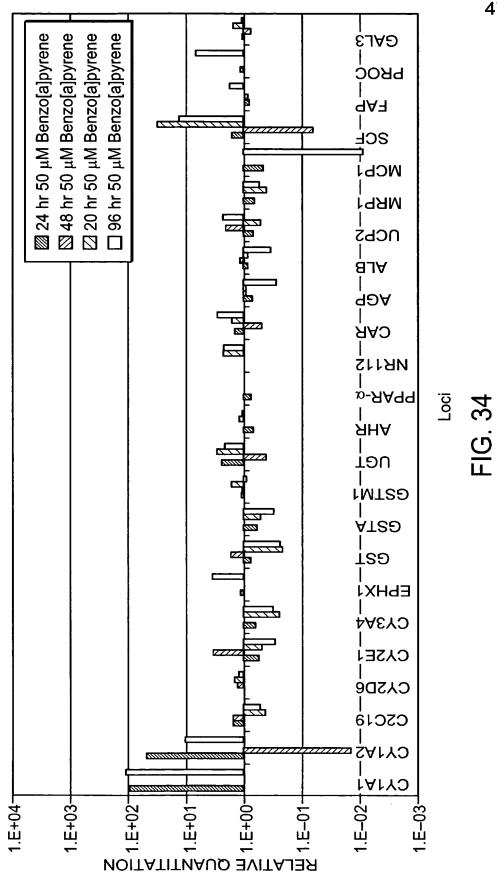






ANAm BVITAJBA

**EXAMPLE USE OF THE HUMAN LIVER SELECTED PANEL** 



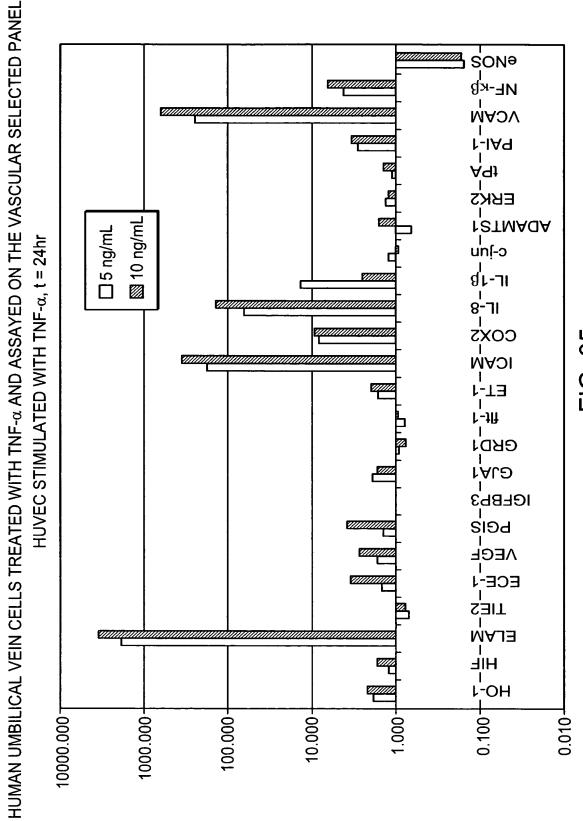


FIG. 35

